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Substitute for form 1449A/PTO				<b>Complete if Known</b>	
				Application Number	10/705,493
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Filing Date	November 10, 2003
				First Named Inventor	Eric Hamilton et al.
				Group Art Unit	2471 2465
				Examiner Name	Not yet assigned THUY PARDO
Sheet	1	of	5	Attorney Docket Number	112056-0120

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
TP		5,963,962		HITZ, et al.	10-05-1999	
		6,038,570		HITZ, et al.	03-14-2000	
		5,819,292		HITZ, et al.	10-06-1998	
		6,643,654		PATEL, et al.	11-04-2003	
				PAWLOWSKI, et al.		U.S. Patent Application Serial No. 10/215,917, (Attn. Matter No. 112056- 0070) filed August 9, 2002, titled MULTI-PROTOCOL STORAGE APPLIANCE THAT PROVIDES INTEGRATED SUPPORT FOR FILE AND BLOCK ACCESS PROTOCOLS
				EDWARDS, et al.		U.S. Patent Application Serial No. 10/027,634, (Attn. Matter No. 112056- 0002) filed December 21, 2001, titled FILE SYSTEM DEFRAGMENTATION TECHNIQUE VIA WRITE ALLOCATION
				HAMILTON, et al.		U.S. Patent Application Serial No. 10/705,025, (Attn. Matter No. 112056- 0121) filed November 10, 2003, titled SYSTEM AND METHOD FOR MANAGING FILE METADATA DURING CONSISTENCY POINTS
				FAIR, et al.		U.S. Patent Application Serial No. 10/705,470, (Attn. Matter No. 112056- 0123) titled METHOD FOR DETECTING LEAKED BUFFER WRITES ACROSS FILE SYSTEM CONSISTENCY POINTS
TP		5,511,177		KAGIMASA, et al.	04-23-1996	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM- DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sub>e</sub>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				

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JP		5,897,661		BARANOVSKY, et al.	04-27-1999	
		6,185,655	B1	PEPING	02-06-2001	
		6,606,690	B2	PADOVANO	08-12-2003	
		5,941,972		HOESE, et al.	08-24-1999	
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		5,944,789		TZELNIC, et al.	08-31-1999	
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		6,275,898	B1	DEKONING	08-14-2001	
		5,129,088		AUSLANDER, et al.	07-07-1992	
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		6,618,798	B1	BURTON, et al.	09-09-2003	
		4,916,608		SHULTZ	04-10-1990	
		4,843,541		BEAN, et al.	06-27-1989	
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		5,355,453		ROW, et al.	10-11-1994	

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First Named Inventor	Eric Hamilton et al.
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Examiner Name	<del>Not yet assigned</del> THUY PARDO
Attorney Docket Number	112056-0120

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Sheet	3	of	5
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		First Named Inventor	Eric Hamilton et al.
		Group Art Unit	<del>2171</del> 2165
		Examiner Name	Not yet assigned THUY PARDO
		Attorney Docket Number	112056-0120
Sheet	4	of	5

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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TP ↑		DAVID HITZ et al., TR3002 File System Design for a NFS File Server Appliance published by Network Appliance, Inc.	
		Common Internet File System (CIFS) Version: CIFS-Spec 0.9, Storage Networking Industry Association (SNIA), Draft SNIA CIFS Documentation Work Group Work-in-Progress, Revision Date: 3/26/2001	
		FIELDING et al., (1999) Request for Comments (RFC) 2616, HTTP/1.1	
		Auspex Systems, LFS - A Local File System for Multiprocessor NFS Network Servers, 1994	
		Unix Workstation System Administration Education Certification Course, January 8, 2002	
		RON LENIVE and MICHELLE GERVAIS, Building a SAN, SunExpert Magazine, March 1999, pp50-64	
		Network Appliance ends NAS-SAN war by COMPUTERWIRE, <a href="http://www.theregister.co.uk/2002/10/102/network_appliance_ends_nassan_war/print.html">http://www.theregister.co.uk/2002/10/102/network_appliance_ends_nassan_war/print.html</a> , Published Wednesday, October 2, 2002	
		International Search Report PCT/US03/23597, 03-09-2004, 7 pages, International Searching Authority, Alexandria, Virginia, USA	
		International Search Report PCT/US03/23597, 04-14-2004, 8 pages, International Searching Authority, Alexandria, Virginia, USA	
		LU, Y. "Performance Study of iSCSI-Based Storage Subsystems", IEEE Communications Magazine, pp. 76-82, August 2003	
V TP		Celerra File Server Architecture for High Availability, EMC2 where information lives, August 1999, pp. 1-7.	

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		Filing Date	November 10, 2003
		First Named Inventor	Eric Hamilton et al.
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Sheet 5 of 5	Attorney Docket Number	112056-0120	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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TP ↑    ↓ TP		CALLAGHAN B. "NFS Version 3 Protocol Specification", Request for Comments (RFC) 1813 June 1995	
		Asante Desktop EN/SC Adapters User's Manual April 1996	
		Asante EN/SC Adapter Family Installation Guide May 1994	
		Maintenance Procedures ND (8C) nd-network disk control February 1985	
		Misc. Reference Manual Pages ND (4P) nd-network disk driver 26 July 1985	
		Performance Without Compromise: The Virtual Storage Architecture 1997	

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Sheet	1	of	5
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Application Number	10/705,493
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## U.S. PATENT DOCUMENTS

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		Number	Kind Code <sup>2</sup> (if known)			
R	1	Re. 34,100		Hartness	10-13-1992	
	2	4,156,907		Rawlings, et al.	05-29-1979	
	3	4,399,503		Hawley	08-16-1983	
	4	4,598,357		Swenson et al.	07-01-1986	
	5	4,688,221		Nakamura et al.	08-18-1987	
	6	4,698,808		Ishii	10-06-1987	
	7	4,761,785	B1	Clark et al.	08-02-1988	
	8	4,805,090		Coogan	02-14-1989	
	9	4,837,675		Bean et al.	06-06-1989	
	10	4,864,497		Lowry et al.	09-05-1989	
V	11	4,896,259		Jacobs et al.	01-23-1990	
	12	4,899,342		Potter et al.	02-06-1990	
	13	4,989,206		Dunphy, Jr. et al.	01-29-1991	
	14	5,124,987		Milligan et al.	06-23-1992	
	15	5,155,835		Belsan	10-13-1992	
	16	5,426,747		Weinreb et al.	06-20-1995	
	17	5,581,724		Belsan et al.	12-03-1996	
	18	6,636,879	B1	Doucette et al.	10-21-2003	
TK						

## FOREIGN PATENT DOCUMENTS

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T	20	Administration Guide found at <a href="http://www.openafs.org/pages/doc/AdminGuide/auagd010.htm">http://www.openafs.org/pages/doc/AdminGuide/auagd010.htm</a> , visited on 3/2/2005	
T	21	BASILICO, ET AL., <i>Error Correction System Using "Shadow Memory,"</i> IBM Technical Disclosure Bulletin, May 1984, pp. 5792-5793	
	22	BITTON, DINA, <i>Disk Shadowing</i> , Proceedings of the 14 <sup>th</sup> VLDB Conference, LA, CA (1988)	
	23	BLASGEN, M.W. ET AL., <i>System R: An architectural Overview</i> , Reprinted from IBM Systems Journal Vol. 20, no. 1, 1981/1981, 1999	
	24	BORENSTEIN, NATHANIEL S., <i>CMU's Andrew project a retrospective</i> , Communications of ACM, (39)12, December 1996	
	25	BROWN, MARK R. ET AL., <i>The Alpine file system</i> , ACM Transactions on Computing Systems, 3(4):261–293, November 1985	
	26	CHEN, PETER M., ET AL., <i>An Evaluation of Redundant Arrays of Disks Using an Amdahl 5890</i> Performance Evaluation, pp. 74-85, 1990	
	27	CHUTANI, SAILESH, ET AL., <i>The Episode file system</i> , In Proceedings of the USENIX Winter 1992	
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	29	Data Sheet for the Check Point Software Technologies product Flood-Gate-1 (1997)	
	30	DIBBLE, PETER C., ET AL., <i>Beyond Striping: The Bridge Multiprocessor File System</i> , Computer Science Department, University of Rochester, Aug. 11, 1989	
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	32	GAIT, JASON, <i>Phoenix: A Safe In-Memory File System</i> . Communications of the ACM, 33(1):81–86, January 1990	
	33	HARTMAN, JOHN H. ET AL., <i>Performance Measurements of a Multiprocessor Sprite Kernel</i> , Proceedings of the USENIX Conference, 1990	
T	34	HITZ, DAVE ET AL., <i>File System Design for an NFS File Server Appliance</i> , Technical Report 3002, Rev. C395, presented Jan. 19, 1994	
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Sheet 3 of 5

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JP	35	HOWARD, JOHN H, ET AL. <i>Scale and Performance in a Distributed File System</i> , Carnegie Mellon University, CMU-ITC-87-068, Aug. 5, 1987	
	36	HOWARD, JOHN, H. ET AL., <i>Scale and performance in a distributed file system</i> , ACM Trans. Computer. System., 6(1), Feb. 1988 pp. 51-81	
	37	HOWARD, JOHN H., <i>An Overview of the Andrew File System</i> , Carnegie Mellon University, CMU-ITC-88-062	
	38	<i>The IBM System/38</i> , Chapter 8, pp. 137-15	
	39	ISOMAKI, MARKUS, <i>Differentiated Service for the Internet</i> , Department of Technical Physics and Mathematics, May 9, 1998	
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	46	MOONS, HERMAN ET AL., <i>Location-Independent Object Invocation in Open Distributed Systems</i> , Autumn 1991 EurOpen Technical Conference and Exhibition, pp. 287-300 (September 16-20, 1991)	
	47	MORRIS, JAMES H., Et Al, <i>Andrew: A Distributed Personal Computing Environment</i> , Comm. of the ACM, vol. 29, March 1986, pp 184-201	
	48	MULLENDER, SAPE J., ET AL., <i>A distributed file service based on optimistic concurrency control</i> , ACM Symposium on Operating System Principles (Orcas Island, Washington). Published as Operating Systems Review, 19(5):51-62, December 1985	
	49	MULLER, KEITH, ET AL., <i>A High Performance Multi-Structured File System Design</i> , In Proceedings of the 13th ACM Symposium on Operating Systems Principles, October 1991, pp. 56-67	
Examiner Signature	<i>[Signature]</i>		Date Considered 4/14/06

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First Named Inventor	Eric Hamilton et al.														
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Examiner Name	Not yet assigned- PARDO														
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Sheet	4	of	5												

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	49	MULLER, KEITH, ET AL., <i>A High Performance Multi-Structured File System Design</i> , In Proceedings of the 13th ACM Symposium on Operating Systems Principles, October 1991, pp. 56-67	
	50	OUSTERHOUT, JOHN K. ET AL., <i>The Sprite Network Operating System</i> , Computer Science Division, Department of Electrical Engineering and Computer Sciences, Univ. of CA, Berkley, Nov. 19, 1987	
	51	OUSTERHOUT, JOHN ET AL., <i>Beating the I/O Bottleneck: A Case for Log-Structured File Systems</i> , Technical Report, Computer Science Division, Electrical Engineering and Computer Sciences, University of California at Berkeley, October 30, 1988	
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	54	PATTERSON, D., ET AL., <i>A Case for Redundant Arrays of Inexpensive Disks (RAID)</i> , Technical Report, CSD-87-391, Computer Science Division, Electrical Engineering and Computer Sciences, University of California at Berkeley (1987)	
	55	PATTERSON, D., ET AL., <i>A Case for Redundant Arrays of Inexpensive Disks (RAID)</i> , SIGMOD International Conference on Management of Data, Chicago, IL, USA, 1-3 June 1988, SIGMOD RECORD (17)3:109-16 (Sept. 1988)	
	56	PETERSON, ZACHARY NATHANIEL JOSEPH, <i>Data Placement for Copy-on-Write Using Virtual Contiguity</i> , University of CA, Santa Cruz, Master of Science in Computer Science Thesis, September 2002	
	57	QUINLAN, SEAN, <i>A Cached WORM File System</i> , Software-Practice and Experience, 21(12):1289-1299 (1991)	
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↓	59	ROSENBERG, J., ET AL., <i>Stability in a Persistent Store Based on a Large Virtual Memory</i> , In Security and Persistence, Rosenber, J. & Keedy, J.L. (ed), Springer-Verlag (1990) pp 229-245	
TP	60	ROSENBLUM, MENDEL, ET AL., <i>The LFS Storage Manager</i> , Computer Science Division, Electrical Engin. And Computer Sciences, Univ. of CA, presented at Summer '90 USENIX Technical Conference, Anaheim, CA June 1990	
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		Filing Date	November 10, 2003
		First Named Inventor	Eric Hamilton et al.
		Group Art Unit	2171 9165
		Examiner Name	Not yet assigned PARDD
		Attorney Docket Number	112056-0120
Sheet	5	of	5

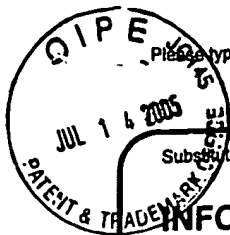
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JP	61	ROSENBLUM, MENDEL, ET AL., <i>The Design and Implementation of a Log-Structured File System</i> July 24, 1991 pp1-15.	
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	66	SATYANARAYANAN, M., <i>A survey of distributed file-systems</i> . Annual Review of Computing Science, 4(73–104), 1989	
	67	SATYANARAYANAN, M., ET AL., <i>Coda: A highly available file system for a distributed workstation environment</i> Carnegie Mellon University, CMU-ITC	
	68	SATYANARAYANAN, M., ET AL., <i>Coda: A highly available file system for a distributed workstation environment</i> . IEEE Transactions on Computers, 39(4):447-459, 1990	
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	71	User Guide found at <a href="http://www.openafs.org/pages/doc/UserGuide/auusg004.htm">http://www.openafs.org/pages/doc/UserGuide/auusg004.htm</a> , visited on 3/2/2005	
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Examiner Signature		Date Considered	4/14/06
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet

1

of

3

**Complete if Known**

Application Number

10/705,493

Filing Date

November 10, 2003

First Named Inventor

Eric Hamilton et al.

Group Art Unit

2171 2165

Examiner Name

Not yet assigned

THUY PARDO

Attorney Docket Number

112056-0120

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
TP	1	4,570,217		Allen et al.	02-11-1986	
	2	5,163,131		Row et al.	11-10-1992	
	3	5,202,979		Hillis et al.	04-13-1993	
V	4	5,278,979		Foster et al.	01-11-1994	

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

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TP	5	AKYUREK, SEDAT, <i>Placing Replicated Data to Reduce Seek Delays</i> , Department of Computer Science, University of Maryland, UMIACS-TR-91-121, CS-TR-2746, August 1991.
↑	6	BITTON, DINA, <i>Disk Shadowing</i> , Proceedings of the 14 <sup>th</sup> VLDB Conference, LA, CA 1988.
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	9	COYNE, ROBERT A., ET AL., <i>Storage Systems for National Information Assets</i> , Proc. Supercomputing 92, Minneapolis, Nov. 1992, pp. 626-633.
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	11	GRAY, JIM, ET AL., <i>The Recovery Manager of the System R Database Manager</i> , ACM Computing Surveys, (13)2:223-242 1981.
	12	HECHT, MATTHEW S., ET AL. <i>Shadowed Management of Free Disk Pages with a Linked List</i> , ACM Transactions on Database Systems, 8/4, December 1983, pp. 503-514.
TP	13	HOWARD, JOHN, H. ET AL., <i>Scale and Performance in a Distributed File System</i> , Carnegie Mellon University, CMU-ITC-87-068, August 1987.

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Sheet 2 of 3

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Application Number	10/705,493
Filing Date	November 10, 2003
First Named Inventor	Eric Hamilton et al.
Group Art Unit	2471 2165
Examiner Name	Not yet assigned PARDO
Attorney Docket Number	112056-0120

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TP	14	HOWARD, JOHN H., <i>An Overview of the Andrew File System</i> , Carnegie Mellon University, CMU-ITC-88-062 1988.	
TP	15	HOWARD, JOHN, H. ET AL., <i>Scale and Performance in a Distributed File System</i> , ACM Trans. Computer System, 6(1), Feb. 1988 pp. 51-81.	
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	19	KENT, JACK ET AL., <i>Optimizing Shadow Recovery Algorithms</i> , IEEE Transactions on Software Engineering, 14(2): 155-168, February 1988.	
	20	KISTLER, ET AL., <i>Disconnected Operation in the Coda File System</i> , ACM Transactions on Computer Systems, Vol. 10, No. 1, February 1992, pp 3-25.	
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	23	PATTERSON, D., ET AL., <i>A Case for Redundant Arrays of Inexpensive Disks (RAID)</i> , Technical Report, CSD-87-391, Computer Science Division, Electrical Engineering and Computer Sciences, University of California at Berkeley 1987.	
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TP	25	PETERSON, ZACHARY NATHANIEL JOSEPH, <i>Data Placement for Copy-on-Write Using Virtual Contiguity</i> , University of CA, Santa Cruz, Master's Thesis for the Department of Science in Computer Science, September 2002.	

Examiner Signature

Date Considered

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Examiner Signature		Date Considered	4/14/06
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